

**October 2025**  
**B.A./B.Sc.**  
**Fifth Semester**  
**DISCIPLINE SPECIFIC ELECTIVE – 1**  
**ZOOLOGY**  
*Course Code: ZOD 5.11*  
**(Animal Behaviour & Chronobiology)**

*Total Mark: 70*

*Pass Mark: 28*

*Time: 3 hours*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Discuss the proximate and ultimate causes of behaviour with the help of suitable examples. 10+4=14
2. Write a note on each of the following: 7×2=14
  - (a) The contributions of Ivan Pavlov
  - (b) Method of recording behaviour

**UNIT-II**

3. Write a note on each of the following: 7×2=14
  - (a) Habituation
  - (b) Imprinting
4. Discuss the concept of individual behavioural patterns giving suitable examples. Add a note on reflex behaviour. 10+4=14

**UNIT-III**

5. Discuss the concept of sexual conflict in parental care with the help of suitable examples 14
6. Write a note on each of the following: 7×2=14
  - (a) Altruism
  - (b) Sexual dimorphism

#### UNIT-IV

7. Discuss the adaptive significance of biological clocks. Add a note on historical development in chronobiology. 10+4=14
8. Give an account of the concept of amplitude and phase. Give examples. 7+7=14

#### UNIT-V

9. What are the different types of biological rhythms? Discuss their characteristics. 8+6=14
10. Write a note on each of the following: 7×2=14
- (a) Photic and non-photic Zeitgebers
  - (b) Masking
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